

PATENT
7836/84512US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Heinz et al.)
Serial No.: 10/025,155)
Filed: 18 December 2001)
For: ANTENNA CONTROL)
SYSTEM)

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Date: 20 April 2004
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**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir or Madam:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants submit a list of documents, general remarks, an attached Form PTO-1449, and copies of the listed documents.

<u>U.S. Patent No.</u>	<u>Date of Issue</u>	<u>Inventor</u>
3,277,481	4 Oct. 1966	N. Robin et al.
4,176,354	27 Nov. 1979	Hsiao et al.
4,779,097	18 Oct. 1988	Morchin
4,881,082	14 Nov. 1989	Graziano
5,089,824	18 Feb. 1992	Uematsu et al.
5,093,923	3 Mar. 1992	Leslie
5,115,217	19 May 1992	McGrath et al.

<u>U.S. Patent No.</u>	<u>Date of Issue</u>	<u>Inventor</u>
5,170,140	8 Dec. 1992	Lowe et al.
5,175,556	29 Dec. 1992	Berkowitz
5,227,806	13 Jul. 1993	Eguchi
5,241,319	31 Aug. 1993	Shimizu
5,274,382	28 Dec. 1993	Wills et al.
5,300,935	5 Apr. 1994	Yu
5,463,401	31 Oct. 1995	Iwasaki
5,521,604	28 May 1996	Yamashita
5,583,514	10 Dec. 1996	Fulop
5,596,329	21 Jan. 1997	Scarle et al.
5,610,617	11 Mar. 1997	Gans et al.
5,617,103	1 Apr. 1997	Koscica et al.
5,623,270	22 Apr. 1997	Kempkes et al.
5,661,488	26 Aug. 1997	Kudo
5,809,395	15 Sep. 1998	Hamilton-Piercy et al.
5,860,056	12 Jan. 1999	Pond

<u>Foreign Patent Documents</u>	<u>Date</u>	<u>Country</u>	<u>Translation</u>
EP 0 540 387 A2	5 May 1993	EPO	
EP 0 593 822 B1	27 Apr. 1994	EPO	
EP 0 616 741 B1	28 Sep. 1994	EPO	
WO 92/16061	17 Sep. 1992	PCT	
WO/ 93/12587	24 Jun. 1993	PCT	

<u>Foreign Patent Documents</u>	<u>Date</u>	<u>Country</u>	<u>Translation</u>
JP 5-121915	18 May 1993	Japan	Yes
JP 6-326501	25 Nov. 1994	Japan	Yes

<u>Other Publications</u>	<u>Translation</u>
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Cheston, T.C., "Beam Steering of Planar Phased Arrays"
(Phased Array Antennas, Arthur A. Oliver (ed.), p. 219-20,
Artech House, Inc. 1992)

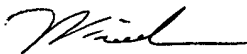
Lovis, Dietrich, "Structure and emission properties of an
electronically controlled secondary radar antenna" (NIG
Technical Reports V. 57 p. 161-65, Bad Neuheim conference, 8-11
March 1997) Yes

Strickland, Peter, "Microstrip Base Station Antennas for
Cellular Communications" (IEEE CH2944-7/91/0000/0166,
p. 166-71, 1991)

"900 MHz Base Station Antennas for Mobile Communication"
(Kathrein)

The listed documents were all identified by the examiner or in an Information Disclosure Statement for a related application, or were listed on the Singer patent (U.S. Patent No. 6,677,896) with which an interference is sought. It is respectfully requested that each of the above documents be given consideration by the Examiner and made of record in the captioned patent application.

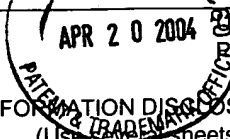
Respectfully submitted,


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Form PTO-1449 (Rev. 8-88)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 7836/84512USC1		Serial No. 10/025,155	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant Heinz et al.			
				Filed: 18 December 2001		Group No. 2824	
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		3,277,481	4 Oct. 1966	N. Robin et al.			
		4,176,354	27 Nov. 1979	Hsiao et al.			
		4,779,097	18 Oct. 1988	Morchin			
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		5,093,923	3 Mar. 1992	Leslie			
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		5,521,604	28 May 1996	Yamashita			
		5,583,514	10 Dec. 1996	Fulop			
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		5,617,103	1 Apr. 1997	Koscica et al.			
		5,623,270	22 Apr. 1997	Kempkes et al.			
		5,661,488	26 Aug. 1997	Kudo			
Examiner							
Date Considered							
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	Cheston, T.C., "Beam Steering of Planar Phased Arrays" (<u>Phased Array Antennas</u> , Arthur A. Oliver (ed.), p. 219-20, Artech House, Inc. 1992)	
	Lovis, Dietrich, "Structure and emission properties of an electronically controlled secondary radar antenna" (NIG Technical Reports V. 57 p. 161-65, Bad Neuheim conference, 8-11 March 1997)	Yes
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	"900 MHz Base Station Antennas for Mobile Communication" (Kathrein)	

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